



I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE RECHIREMENTS

	ELECTRICAL	SERVICE	REGUIR	EMENIS	
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	18	1 35	17	0.50	153
(YELLOW)	18	1 35	25	0.25	112.5
( GREEN)	18	1 35	15	0.25	67.5
ARROW	12	1 35	12	0.10	14.4
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	=	252	25	0.05	-
VIDEO SYSTEM	Tage .	150	-	1.00	
FLASHER LED					
				TOTAL =	547.4

**ENERGY COSTS-**

\$FILEL\$

BILLED TO: CITY OF NORTH CHICAGO

1850 LEWIS AVENUE NORTH CHICAGO, IL 60064

ENERGY SUPPLY -

CONTACT NEW BUSINESS

PHONE 1-866-639-3552

COMPANY COMED

USER NAME = \$USER\$ DESIGNED - JS REVISED DRAWN DW REVISED CHECKED - JD REVISED PLOT SCALE = \$SCALE\$ PLOT DATE = SDATES DATE 01/29/09 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  IL ROUTE 137 (BUCKLEY RD)AND MERIDIAN DR. - SCHEDULE OF QUANTITIES, CABLE PLAN & PHASE DESIGNATION DIAGRAM SHEET NO. 18 OF 21 SHEETS STA.

COUNTY TOTAL SHEE SECTION VAR. 2009-006 TS LAKE 21 18 CONTRACT NO. 60G02 FED. ROAD DIST, NO. ILLINOIS FED. AID PROJECT

EXISTING <u>o</u> (5) (5) R R W R a > 0 G ت × ت  $\bowtie$ ф ILL RTE 137 BUCKLEY RD 03 ILL RTE 137 \_\_ 20 × m BUCKLEY RD D--0 ດ ≺ ¤ (5)-C Y MERIDIAN "P" В "E" "E" (S) (Q) (5) (5) "E" H/C |||-CABLE PLAN SCHEDULE OF QUANTITIES UNIT QUANTITY

EACH

UNINTERRUPTABLE POWER SUPPLY (UPS)

ITEM SIGN PANEL - TYPE I SQ FT 37.5 SIGN PANEL - TYPE II SQ FT 27.5 REMOVE SIGN PANEL -TYPE I SQ FT 37.5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" FOOT 220 THERMOPLASTIC PAVEMENT MARKING - LINE 24" FOOT 210 THERMOPLASTIC PAVEMENT MARKING REMOVAL SQ FT 530 CONDUIT IN TRENCH, 21/2" DIA., GALVANIZED STEEL FOOT 36 TRENCH AND BACKFILL FOR ELECTRICAL WORK FOOT 36 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 1759 DRILL EXISTING HANDHOLE EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. EACH STEEL MAST ARM ASSEMBLY AND POLE, 30 FT. EACH STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. EACH CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER FOOT CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER FOOT SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED EACH PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 10 PEDESTRIAN PUSH-BUTTON EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH REMOVE EXISTING CONCRETE FOUNDATION EACH TEMPORARY INFORMATION SIGNING SQ FT 102.8 PROPOSED

8" (200mm) TRAFFIC SIGNAL SECTION

R 12" (300mm) TRAFFIC SIGNAL SECTION

12" (300mm) PEDESTRIAN SIGNAL SECTION

CABLE PLAN LEGEND

12" (300mm) PEDESTRIAN SIGNAL SECTION

12" (300mm) PEDESTRIAN SIGNAL SECTION W/ COUNTDOWN TIMER

CONTROLLER CABINET

SERVICE INSTALLATION TELEPHONE CONNECTION

MAGNETIC DETECTOR

LIGHT DETECTOR CONFIRMATION BEACON

PUSHBUTTON DETECTOR

VEHICLE DETECTOR, INDUCTION LOOP

EMERGENCY VEHICLE

2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE

TO BE SHIELDED.

SIGNAL FACE WITH BACKPLATE. " P" INDICATES PROGRAMMED HEAD

M RAILROAD CONTROL CABINET

ILLUMINATED SIGN, FIBER OPTIC

"NO LEFT TURN"

ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"

G +Y +G

GROUND ROD AT HANDHOLE. DOUBLE HANDHOLE, OR CONTROLLER

「⊪⊸ GROUND ROD AT POST OR MAST ARM POLE

GROUND ROD AT ELECTRIC SERVICE INSTALLATION

1 GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)

24 FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MM12F & SM12F

Œı UNINTERUPTED POWER SUPPLY

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

FOUNDATION DEPTH	DEPTH (FT.)	CABLE SLACK	(FT.)	VERTI CAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTOLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	=20' +L-2
E - MAST ARM POLE		SI GNAL POST	2	BRACKET MOUNTED	13
30''	15	CONTOLLER CAB.	1	PED. PUSHBUTTON	4
36"	15	FIBER OPTIC	13	ELECTRICAL SERVICE	13.5
42''	25	ELECTRICAL SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POSTMOUNTED	6